

Annual Meeting of the Multistate Project S-1076:
Arthropod Management in Animal Agriculture Systems and
Impacts on Animal Health and Food Security

January 10-12, 2024

Zoom link: TBD Password: TBD

Car pool spreadsheet [click here](#)

Courtyard by Marriott Las Cruces at NMSU
456 E University Ave, Las Cruces, NM 88005
575-5261722

Wednesday Session (arrival)

1600: Optional Tour of Veterinary Entomology Laboratory (1 of 3 options) (Smythe) [Sign up here](#)

Thursday Session (0830-1700)

Breakfast: Provided by hotel (Time TBD)

0830: Welcome (Machtinger)

0845 - Local Arrangements (Smythe)

0900 S1076 Officer Reports, Job announcements, Job celebrations

0930 - Objective Activities:

1. **New technologies for the management of biting and nuisance flies in organic and conventional systems (Trout Fryxell, Olafson)**
 - a. **Novel push-pull strategies (NE, NC, USDA-NE, USDA-FL)**
 - b. **Evaluation of improved monitoring systems (USDA-NE, CA, TN, NM)**
 - c. **Novel toxicants, biopesticides, and delivery systems (TX, USDA-FL, USDA-NE, FL, NE, PA, NM)**
 - d. **Non-pesticide management options (mechanical) (FL, NC, NE, USDA-NE, USDA-FL, USDA-TX, PA, TN)**
2. **Insecticide resistance detection and management (Brewer, Boxler)**
 - a. **Assessment of insecticide resistance (TX, NY, USDA)**
 - b. **Leveraging the Stomoxys and Musca genomes for novel control measures (NY, USDA)**

1200: Tentative break for lunch

3. **Investigation of the microbial ecology, epithelial immunity, and vector competence of biting and nuisance flies (Burgess, Estep)**
 - a. **Identification of the key bacterial strains and their metabolites playing a major role in oviposition and larval development of stable flies (TX, KS, USDA)**
 - b. **Investigation of the innate immune response of filth flies (KS, USDA)**
 - c. **Consequences of fly-bacteria interactions: selection effects and evolutionary outcomes (USDA, TX)**

- d. Animal and human pathogen acquisition, dispersal and deposition by muscid flies (NC, MA, KS)
4. Characterize population biology of biting and nuisance flies (**Olds, Shults**)
 - a. Characterize effects of climate and landscape features on dispersal (KS, TX, USDA NC)
 - b. Phenological and environmental effects on biting and nuisance fly populations (FL, KS, TN, USDA)
5. Extension and community engagement (**Gerry, Loftin, Machtinger**)
 - a. Improve project website to maximize extension and community engagement
 - b. Demonstrate research value to stakeholders and funding decision-makers
 - c. Seek funding to support these extension/outreach efforts by developing proposals that will be submitted to various granting agencies including our Regional IPM Centers.

TBD- Optional Tour of Veterinary Entomology Laboratory (2 of 3 options) (Smythe) [Sign up here](#)

Friday Morning Session (0800-1300)

Breakfast: Provided by hotel (Time TBD)

0830 - Welcome and plan for the day (Machtinger)

0845 - Local Arrangements (Smythe)

0900 - Advisor Reports / Program Leader:

TBD (Cliff Lamb) (S-1076 Administrative Advisor) (Virtual)

0915 - Business Meeting:

- Selection of 2024 meeting location
- Selection of new Project chair
- New Business
 - Recruitment

1030 - Planning session

How are we going to move this forward (what is the next step)

Objective leaders

What other people need

Recruitment

Award - prep in advance

1200: Tentative break for lunch

1300- Closing: Smythe (Local Arrangements Chairs) Machtinger (Chair)

TBD - Optional Tour of Veterinary Entomology Laboratory (3 of 3 options) (Smythe) [Sign up here](#)